

brown, obtusely quadrangular, densely white hairy. Leaves simple, opposite, membranous, rhombate, 2-7 x 1-3 cm, acute at apex and base, margin entire, ciliate, patently hairy on both surfaces, reddish-brown above, greenish-brown beneath; petioles 5-7 mm long, channeled above, hairy. Inflorescence terminal, racemose, up to 26 cm long, densely pubescent; peduncles up to 8.5 cm long. Flowers in glomerules, sterile flowers often found in the lower parts and modified into hooked fascicles. Tepals lanceolate, *c.* 3 mm long, densely villous and pubescent within. Stamens 5, filaments at the base with a short connate cup; free parts alternating with dentate, pseudo-staminodes; anthers 2-celled. Ovary obovoid, *c.* 1 mm long; style very short. Seeds up to 1.2 mm long, shining brown.

**Fl. & Fr.:** March-August.

**Distribution:** INDIA: Throughout; Africa to China, throughout south-east Asia and Australia.

**Habitat:** Not common along the edges of evergreen

and semi-evergreen forests.

**Specimens Examined:** Little Andaman Island: Way towards Unnis nallah dam, 27.iv.2006, L. Rasingam 20984; North Nicobars: Katchal Island, West bay, 1.v.1977, P. Chakraborty 5578; South Nicobars: Great Nicobar Islands, 35 km on east-west road, 20.vii.1976, N.P. Balakrishnan 3898; 36.8 km on east-west road, 17.vi.1977, N.P. Balakrishnan 5824.

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#### 21. *PANDANUS UNIPAPILLATUS* DENNST.: A NEW RECORD FOR MAHARASHTRA AND GOA, INDIA

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In November 2007, we collected a species from Maharashtra at Sawantwadi (15° 51' 33 N; 73° 50' 38 E) of Sindhudurg district and in December 2007 from Goa at Paingen (14° 58' 03 N; 74° 05' 19 E) of Canacona district. The collected specimen when compared with the authentically identified specimens deposited at the Botanical Survey of India, Western Circle, Pune, was identified as *P. unipapillatus*.

*Pandanus unipapillatus* Dennst. (Pandanaceae) has been reported for the first time for the states of Maharashtra and Goa (Sharma *et al.* 1996; Rao 1986; Kulkarni 1988). In this report, a detailed description of the species is given.

***P. unipapillatus* Dennst.** Schlüssel Hortus Malab. 27. (1818).

**Material Examined:** INDIA: Maharashtra (Sindhudurg district, Sawantwadi, 7 km from Sawantwadi towards Londha) female plant, Rahul Zanan 7; Goa Canacona district, Paingen, male plant, Rahul Zanan 5, female, Rahul Zanan 6.

A large shrub or small tree up to 8 m height; more or less erect stem, branching near top with a few prop roots at base. Leaves up to 1.5-2 m x 3-5 cm, margin with sharp curved prickles and midrib prickly along its whole length. 7-8 spines on midrib (per 10 cm), spines 3 mm long, 15-16 on margin (per 10 cm) in three rows, leaf colour deep to light green.

Male inflorescence ephemeral, fragrant, terminal with yellowish 10-12 bracts; spikes up to 12-20 cm long and dense, stemonophore 3-6 mm long; stamen 5-8 mm long with free up to 1 mm long filament; anther 3-5 mm long. Female inflorescence terminal, bracteate, 6-8 bracts of variable length; solitary, oblong-rounded 25-30 cm x 18-20 cm, carpel simple, hexagonal, 4.5 cm long, 1 cm in diameter, single forked, style 1 cm long. Grows at the border of paddy fields and along the bank of streams.

**Flowering & Fruiting:** Fl.: August to October, Fr.: September to December.

**Distribution:** INDIA: Karnataka, Kerala, Tamil Nadu, Maharashtra and Goa.